

227812

STATE OF SOUTH CAROLINA

(Caption of Case)

In Re:

Application of Duke Energy Carolinas, LLC
For Approval of EE Vintage 0 Revenue Requirement

BEFORE THE
PUBLIC SERVICE COMMISSION
OF SOUTH CAROLINA

COVER SHEET

Posted: lod

DOCKET

Dept: S.A.

NUMBER: 2011 - 40 - E

Date: 1/27/11

Time: 10:25

(Please type or print)

Submitted by: Charles A. Castle

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Other: _____

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NOTE: The cover sheet and information contained herein neither replaces nor supplements the filing and service of pleadings or other papers as required by law. This form is required for use by the Public Service Commission of South Carolina for the purpose of docketing and must be filled out completely.

DOCKETING INFORMATION (Check all that apply)

☐ Emergency Relief demanded in petition

☐ Request for item to be placed on Commission's Agenda expeditiously

☐ Other: _____

INDUSTRY (Check one)	NATURE OF ACTION (Check all that apply)			
<input checked="" type="checkbox"/> Electric	<input type="checkbox"/> Affidavit	<input type="checkbox"/> Letter	<input type="checkbox"/> Request	
<input type="checkbox"/> Electric/Gas	<input type="checkbox"/> Agreement	<input type="checkbox"/> Memorandum	<input type="checkbox"/> Request for Certificatio	
<input type="checkbox"/> Electric/Telecommunications	<input type="checkbox"/> Answer	<input type="checkbox"/> Motion	<input type="checkbox"/> Request for Investigator	
<input type="checkbox"/> Electric/Water	<input type="checkbox"/> Appellate Review	<input type="checkbox"/> Objection	<input type="checkbox"/> Resale Agreement	
<input type="checkbox"/> Electric/Water/Telecom.	<input checked="" type="checkbox"/> Application	<input type="checkbox"/> Petition	<input type="checkbox"/> Resale Amendment	
<input type="checkbox"/> Electric/Water/Sewer	<input type="checkbox"/> Brief	<input type="checkbox"/> Petition for Reconsideration	<input type="checkbox"/> Reservation Letter	
<input type="checkbox"/> Gas	<input type="checkbox"/> Certificate	<input type="checkbox"/> Petition for Rulemaking	<input type="checkbox"/> Response	
<input type="checkbox"/> Railroad	<input type="checkbox"/> Comments	<input type="checkbox"/> Petition for Rule to Show Cause	<input type="checkbox"/> Response to Discovery	
<input type="checkbox"/> Sewer	<input type="checkbox"/> Complaint	<input type="checkbox"/> Petition to Intervene	<input type="checkbox"/> Return to Petition	
<input type="checkbox"/> Telecommunications	<input type="checkbox"/> Consent Order	<input type="checkbox"/> Petition to Intervene Out of Time	<input type="checkbox"/> Stipulation	
<input type="checkbox"/> Transportation	<input type="checkbox"/> Discovery	<input type="checkbox"/> Prefiled Testimony	<input type="checkbox"/> Subpoena	
<input type="checkbox"/> Water	<input type="checkbox"/> Exhibit	<input type="checkbox"/> Promotion	<input type="checkbox"/> Tariff	
<input type="checkbox"/> Water/Sewer	<input type="checkbox"/> Expedited Consideration	<input type="checkbox"/> Proposed Order	<input type="checkbox"/> Other: _____	
<input type="checkbox"/> Administrative Matter	<input type="checkbox"/> Interconnection Agreement	<input type="checkbox"/> Protest		
<input type="checkbox"/> Other:	<input type="checkbox"/> Interconnection Amendment	<input type="checkbox"/> Publisher's Affidavit		
	<input type="checkbox"/> Late-Filed Exhibit	<input type="checkbox"/> Report		

RECEIVED

JAN 27 2011

PSC SC
CLERK'S OFFICE



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January 26, 2011

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JAN 27 2011

PSG SC
CLERK'S OFFICE

Ms. Jocelyn Boyd
Chief Clerk and Administrator
Public Service Commission of South Carolina
101 Executive Center Drive
Columbia, South Carolina 29210

RE: Duke Energy Carolinas' Application for Approval of EE Vintage 0 Revenue Requirement

Dear Ms. Boyd:

Enclosed for filing, please find Duke Energy Carolinas, LLC's ("Duke Energy Carolinas") Application For Approval of EE Vintage 0 Revenue Requirement ("Vintage 0 Application"). This Vintage 0 Application corrects several scrivener's errors in the application that was originally filed in Docket No. 2009-226-E on January 24, 2011.¹ Duke Energy Carolinas has filed a request to withdraw the original filing and asks that this filing be submitted in its place and assigned a new docket number. Doing so will maintain the consistency of assigning separate docket numbers for the EE filings.

Thank you for your consideration and please do not hesitate to contact me should you have any questions or comments.

Sincerely,

Charles A. Castle

/clg

Enclosures

Copy: Parties of Record

¹ The original Vintage 0 Application corrects the following: Page 2, paragraph 1 of the January 24, 2011 filing states, "the cost to be recovered for the Vintage 0 period is \$2,135,128 from residential customers and \$2,115,825 from non-residential customers." These amounts are revised to reflect recovery of \$2,136,359 from residential customers and \$2,117,532 from non-residential customers. In addition, Exhibit 2 "System Revenue Requirement for Energy Efficiency Programs" section entitled "Allocation of Total EE to SC Retail Sum (Line 8:Line 8) * Line 1" is revised to read "Sum (Vintage 0 Line 8) * Line 1."

BEFORE
THE PUBLIC SERVICE COMMISSION OF
SOUTH CAROLINA

In re:)	
)	
Application of Duke Energy Carolinas, LLC)	DUKE ENERGY CAROLINAS,
For Approval of EE Vintage 0 Revenue)	LLC'S APPLICATION
Requirement)	

In accordance with the Public Service Commission of South Carolina's ("the Commission") Order No. 2009-336 in Docket No. 2009-166-E and Order No. 2010-79 in Docket No. 2009-226-E, and the Settlement Agreement by and among Duke Energy Carolinas, LLC ("the Company"), the South Carolina Office of Regulatory Staff, South Carolina Energy Users Committee, and the Southern Environmental Law Center, the Company hereby requests that the Commission approve its application to recover costs deferred in connection with the implementation of its Energy Efficiency ("EE") Programs. The application reflects actual revenue requirements for the Company's EE and demand side management ("DSM") programs and recovers (a) revenues for Vintage 0 equal to 75% of the Company's avoided capacity costs applicable to DSM programs and 55% of the net present value ("NPV") avoided capacity and energy costs applicable to EE programs; and (b) lost revenues for EE programs only. Vintage 0 reflects the period of June 2009 through January 31, 2010, for which the Commission approved a deferral costs until a recovery mechanism was determined.

In support of its application, the Company states as follows:

1. The cost to be recovered for the Vintage 0 period is \$2,136,359 from residential customers and \$2,117,532 from non-residential customers. The various components comprising this amount are located in Exhibits 1-7 of this application. Per Order No. 2010-79 in Docket No. 2009-226-E, Vintage 0 shall be applied as an offset to the existing balance of DSM costs owed to customers rather than billed to customers under the Rider EE. Exhibit 7 illustrates the amounts to be apportioned to the existing DSM balance in accordance with the class of customers. See Order No. 2010-79, p. 13¹
2. The Vintage 0 period includes the following items:
 - a. Avoided cost revenue requirements to reflect actual participation and information related to the kW and kWh savings for the EE and DSM programs offered during Vintage 0.
 - b. Lost revenues for thirty-two of the thirty-six months of Vintage 0 to reflect current SC retail rates and to reflect the primary rate schedules for which kWh savings are being achieved. Lost revenues for February 1, 2010 to May 31, 2010, which the Company will seek to collect through the base rate case to be filed in 2011, are excluded.
 - c. Earnings cap calculation to reflect actual earnings based upon a percentage of program costs compared to those earned through avoided costs revenues.

Based on the foregoing, the Company respectfully requests that the Commission grant its application seeking approval of its Vintage 0 Revenue Requirement as described herein

¹ The Company expects the balances for residential, general and industrial to drop to zero by the end of 2012.

and in the attached exhibits. Additionally, the Company requests that in accordance with S.C. Code Ann. §58-27-870(F), the Commission allow the proposed rate to be put into effect without notice and hearing. The proposed rate does not require a determination of the entire rate structure and overall rate of return, and will facilitate an orderly rate administration.

Dated this 26th day of January, 2011.



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Timika Shafeek-Horton, Assistant General Counsel
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Duke Energy Carolinas
DSM/EE Cost Recovery Rider 0
Docket Number

Calculation of Actual Revenue Requirement Vintage 0

Residential Revenue Requirement:

- 1 EE Avoided Cost Component
- 2 DSM Avoided Cost Component
- 3 Residential Avoided Cost Revenue Requirement
- 4 Gross Receipts Tax and Regulatory Fee Factor
- 5 Adjusted Residential Avoided Cost Revenue Requirement
- 6 Lost Revenues Vintage 0 (32 months)*
- 7 Residential Save-A-Watt Revenue Requirement

Vintage 0 Total SC Retail Costs
Exhibit 2, Line 9
Exhibit 2, Line 17
Line 1 + Line 2
Line 3 * Line 4
Exhibit 2, Line 10
Line 5 + Line 6

Non-Residential Revenue Requirement:

- 1 EE Avoided Cost Component
- 2 DSM Avoided Cost Component
- 3 Non-Residential Avoided Cost Revenue Requirement
- 4 Gross Receipts Tax and Regulatory Fee Factor
- 5 Adjusted Non-Residential Avoided Cost Revenue Requirement
- 6 Lost Revenues Vintage 0 (32 months)*
- 7 Non-Residential Save-A-Watt Revenue Requirement

Vintage 0 Total SC Retail Costs
Exhibit 2, Line 11
Exhibit 2, Line 18
Line 1 + Line 2
Line 3 * Line 4
Exhibit 2, Line 12
Line 5 + Line 6

* Feb 2012-May 2012 Lost Revenues to be included in filing for 2012 Base Rate Case

Earnings Cap Calculation

- 1 Earnings (in excess of cap)
- 2 Gross Up of Earnings to Pre-Tax
- 3 Gross up of Pre-Tax Earnings for Gross Receipts Tax and Regulatory Fee
- 4 Amount to be applied to DSM Deferral Balance

Exhibit 6, Line 30
Line 1 / .39176
Line 2 * 1.004581
Line 7 + Line 7 + Line 3

EXHIBIT 2

Duke Energy Carolinas
DSM/EE Cost Recovery Rider 0
Docket Number

Save-A-Watt Revenue Requirement Support Data

Allocation 1 to state based on kWh sales		
1 SC Retail	Exhibit 3	26.9121760%
Allocation 2 to state based on peak demand		
2 SC Retail	Exhibit 3	26.0829094%
Allocation 3 SC res vs. non-res peak demand		
3 SC Residential	Exhibit 3	41.3232886%
4 Non-Residential	Exhibit 3	58.6767114%
System Revenue Requirement for Energy Efficiency Programs		Vintage 0
5 Residential Avoided Costs - EE	Exhibit 5	\$ 5,162,125
6 Residential Lost Revenues - EE	Exhibit 5	\$ 1,498,171
7 Non-Residential Avoided Costs - EE	Exhibit 5	\$ 5,804,699
8 Non-Residential Lost Revenues - EE	Exhibit 5	\$ 175,340
Total EE		\$ 12,640,334
Allocation of Total EE to SC Retail	Sum (Line 5:Line 8) * Line 1	\$ 3,401,789
Allocation to SC Retail Broken Down by Class and Type		Vintage 0
9 Residential Avoided Costs - EE	Line 5 * Line 1	\$ 1,389,240
10 Residential Lost Revenues - EE	Line 6 * Line 1	\$ 403,190
11 Non-Residential Avoided Costs - EE	Line 7 * Line 1	\$ 1,562,171
12 Non-Residential Lost Revenues - EE	Line 8 * Line 1	\$ 47,188
Total	Sum Lines 9 - 12	\$ 3,401,789
System Revenue Requirements for DSM Programs		Vintage 0
13 Residential Avoided Costs - DSM	Exhibit 5	\$ 3,066,226
14 Non-Residential Avoided Costs - DSM	Exhibit 5	\$ 6,098,917
15 Total DSM	Line 13 + Line 14	\$ 9,165,143
Allocation of Total DSM to SC Retail		
16 Total DSM	Line 15 * Line 2	\$ 2,390,536
Allocation to Residential vs. Non Residential		
17 Residential Avoided Cost - DSM	Line 16 * Line 3	\$ 987,848
18 Non-Residential Avoided Cost - DSM	Line 16 * Line 4	\$ 1,402,688
	Line 17 + Line 18	\$ 2,390,536

EXHIBIT 3

Duke Energy Carolinas
DSM/EE Cost Recovery Rider 0

Allocation Factors

KWH SALES ALLOCATOR: Source 2009 COS Study

	Percent of System	Percent of Retail
NC Retail Sales Allocation	69.118573%	73.007611%
SC Retail Sales Allocation*	25.478593%	26.912176%
Greenwood Retail Sales Allocation	0.075940%	
Total Retail	94.673106%	

PEAK DEMAND ALLOCATOR: Source 2009 COS Study

	Percent of System	Percent of Retail	Percent of State
NC Peak Demand Allocation	70.103905%		
SC Peak Demand Allocation			
Residential	10.235875%		41.3232886%
Non-residential	14.534358%		58.6767114%
Greenwood	0.093154%		
Whistle Peak Demand Allocation	5.032709%		
System Peak Demand	100.000000%		100.0000000%
NC Peak Demand Allocation	70.103905%	73.8190004%	
SC Retail Peak Demand Allocation	24.770233%	26.0829094%	
Greenwood	0.09315%		
Total Retail	94.9672914%		

EXHIBIT 4

DSM/EE Cost Recovery Rider 0

(in thousands)

Program Costs

	A	B	C		
	Total System	SC Retail kWh	SC Allocated		
	Costs	Sales	Costs	Residential	Non-Residential
Energy Efficiency (EE) Programs:					
1 Residential Energy Assessments	1,744,324		469,436	469,436	
2 Residential Smart Saver	2,434,706		655,232	655,232	
3 Low Income Services	73,674		19,827	19,827	
4 Energy Efficiency Education Schools Program	1,980,369		532,960	532,960	
5 Nonresidential Energy Assessments	196,655		52,924		52,924
6 Nonresidential Smart Saver	2,000,201		538,298		538,298
7 Oversight of EE programs	1,188,178		319,764	103,080	216,684
8 Subtotal EE Program Costs	9,618,107	26.9121760%	2,588,442		
		SC Retail Peak Demand			
Demand-Side Management (DSM) Programs:					
8 Power Manager	2,053,222		535,540		
9 Power Share	929,399		242,414		
10 Oversight of DSM programs	526,373		137,293		
Subtotal DSM Program Costs	3,508,994	26.0829094%	915,248	378,210	537,037
11 Total EE & DSM Program Costs	<u>13,127,101</u>		<u>3,503,690</u>	<u>2,158,746</u>	<u>1,344,943</u>

EXHIBIT 5

Duke Energy Carolinas DSM/EE Cost Recovery Rider D

Load Impact, Costs and Net Lost Revenues by Program

	A	B	C	D	SC Residential Avoided Costs	SC Residential Lost Revenues
	System Avoided Costs	System Lost Revenues	SC Allocation Factor Allocation based on kWh sales	SC Allocation Factor		
	55%	Net of Variable O&M	Exhibit 4	Exhibit 4		
SC MW - Summer Peak						
1 Residential Programs						
1 Residential Energy Assessments	5,063,241	\$ 709,227	0.269121760	A1 * C1	\$ 692,685	\$ 190,668
2 Smart Saver® for Residential Customers	4,535,584	\$ 635,695	0.269121760	A2 * C2	\$ 652,939	\$ 172,079
3 Low Income Energy Efficiency and Weatherization Assistance	633,666	\$ 91,596	0.269121760	A3 * C3	\$ 72,662	\$ 26,650
4 Energy Efficiency Education Program for Schools	430,983	\$ 61,654	0.269121760	A4 * C4	\$ 51,435	\$ 16,592
5 Total for Residential Conservation Programs	\$ 5,662,125	\$ 1,498,171			\$ 1,389,240	\$ 409,390

6 Power Manager						
7 Total Residential	\$ 3,065,226		0.269121760	0.413232885 (A6-A13) * C5 * D5	\$ 987,848	
	\$ 8,228,351				\$ 2,377,688	

Non-Residential Programs					SC Non-Residential Avoided Costs	SC Non-Residential Lost Revenues
8 Smart Saver® for Non-Residential Customers Lighting	1,708	\$ 5,015,249	0.269121760	A8 * C8	\$ 1,349,713	\$ 42,810
9 Smart Saver® for Non-Residential Customers Motors	53	\$ 293,761	0.269121760	A9 * C9	\$ 79,657	\$ 1,693
10 Smart Saver® for Non-Residential Customers - Other Prescriptive	-	\$ -	0.269121760	A10 * C10	\$ -	\$ -
11 Smart Saver® for Non-Residential Customers - Energy Star Food Service Products	18	\$ 90,595	0.269121760	A11 * C11	\$ 24,381	\$ 581
12 Smart Saver® for Non-Residential Customers - HVAC	88	\$ 372,795	0.269121760	A12 * C12	\$ 100,327	\$ 1,736
13 Smart Saver® for Non-Residential Customers - Custom Rebate	5	\$ 32,298	0.269121760	A13 * C13	\$ 8,692	\$ 368
14 Total for Non-Residential Conservation Programs		\$ 5,804,699			\$ 1,552,172	\$ 47,188

15 Power Share						
16 Total Non-Residential	\$ 6,098,917		0.269121760	0.586767114 (A6-A13) * C13 * D15	\$ 1,402,688	
	\$ 11,993,616				\$ 2,564,855	

System Level Earnings Cap Calculation Vintage 0
Total for Conservation Programs

	A	B	C	D	E
	Res	Non Res	Total		
1 AC Revenues-55%					
2 Program Costs	\$ 5,162,125	\$ 5,804,699	\$ 10,966,824		
3 Avoided Costs -100%	\$ 6,616,097	\$ 3,002,010	\$ 9,618,107		
4 kW	\$ 9,385,682	\$ 10,553,998	\$ 19,939,680		
5 kWh	1,201	1,872	3,073		
	10,691,576	7,325,468	18,017,044		
6 Income Before Taxes					
7 Income Taxes	\$ (1,453,972)	\$ 2,802,689	\$ 1,348,717		
8 Net Income	\$ (569,608)	\$ 1,097,982	\$ 528,373		
	\$ (884,364)	\$ 1,704,708	\$ 820,344		

Total for DSM Programs

	A	B	C	D	E
	Res	Non Res	Total		
9 AC Revenues-75%					
10 Program Costs	\$ 3,066,226	\$ 6,098,917	\$ 9,165,143		
11 Avoided Costs -100%	\$ 2,053,222	\$ 1,455,772	\$ 3,508,994		
12 kW	\$ 4,068,301	\$ 8,131,889	\$ 12,220,191		
13 kWh	13,671	27,193	40,864		
14 Income Before Taxes					
15 Income Taxes	\$ 1,013,004	\$ 4,543,145	\$ 5,656,149		
16 Net Income	\$ 396,854	\$ 1,818,998	\$ 2,215,853		
	\$ 616,150	\$ 2,824,147	\$ 3,440,296		

Total for SAW Programs Adjusted for DSM Cap

	A	B	C	D	E
	Res	Non Res	Total	Res	Non Res
17 AC Revenues					
18 Program Costs	\$ 8,228,351	\$ 11,903,616	\$ 20,131,967		
19 Avoided Costs	\$ 8,669,319	\$ 4,457,782	\$ 13,127,101		
20 kW	\$ 13,473,983	\$ 18,685,888	\$ 32,159,871	42%	58%
21 kWh	14,872	29,065	43,937		
	10,691,576	7,325,468	18,017,044		
22 Income Before Taxes					
23 Income Taxes	\$ (440,968)	\$ 7,445,834	\$ 7,004,866		
24 Net Income	\$ (172,754)	\$ 2,916,980	\$ 2,744,226		
	\$ (268,214)	\$ 4,528,854	\$ 4,260,640		
25 Percent DSM Avoided Cost to Total Avoided Cost (A)					
26 Percent Conservation Avoided Cost to Total Avoided Cost					
	Line C11 / Line C19			38%	
	Line C3 / Line C19			62%	
27 Earnings Cap: Allowed Return on Program Costs					
28 System Earnings in Excess of Program Costs					
29 SC Allocation					
	C18 * 15%				
	Line C24 - Line C27				
	(Exhibit 2, Line 1 * Line 26) + (Exhibit 2, Line 2 * Line 25)				
30 Excess Earnings to be netted against V0 Revenue Requirement					
	Line 28 * Line 29				
			\$ 609,492		

(A) No Adjustment required since DSM avoided costs percent is less than 40%

EXHIBIT 7

Duke Energy Carolinas
DSM/EE Cost Recovery Rider 0
Docket Number
Calculation of Application to old DSM Balance

1 Total Amount of Vintage 0 to be Applied to Old DSM Balance	Exhibit 1, Line 7 Residential + Line 7 Non-Residential	\$	5,816,796
2 Amount to be Applied to Residential Balance for EE and DSM Programs	Exhibit 1, Line 7 - Residential	\$	2,791,168
3 Amount to be Applied to Non-Residential Balance for EE Programs	Exhibit 1, (Line 1 * Line 4) + Line 6 - Non-Residential	\$	1,616,515
4 Amount to be Applied to Industrial for EE Programs	Line 3 * Line A1	\$	930,280
5 Amount to be Applied to General for EE Programs	Line 3 * Line A2	\$	658,814
6 Amount to be Applied to Lighting for EE Programs	Line 3 * Line A3	\$	27,421
7 Amount to be Applied to Non-Residential Balance for DSM Programs	Exhibit 1 (Line 2 X Line 4)	\$	1,409,114
8 Amount to be Applied to Industrial for DSM Programs	Line 7 * Line A4	\$	719,803
9 Amount to be Applied to General for DSM Programs	Line 7 * Line A5	\$	689,009
10 Amount to be Applied to Lighting for DSM Programs	Line 7 * Line A6	\$	301
11 Total Amount of Earnings Cap to be Applied to Old DSM Balance	Exhibit 1	\$	(1,562,905)
11a Residential percent of Avoided Cost	Line 11 * Exhibit 6 D19	\$	(654,809)
11b Non-Residential percent of Avoided Cost	Line 11 * Exhibit 6 E19	\$	(908,097)
11c Industrial percent of kWh sales	Line 11 b * Line A1	\$	(522,596)
11d General percent of kWh sales	Line 11 b * Line A2	\$	(370,097)
11e Lighting percent of kWh sales	Line 11 b * Line A3	\$	(15,404)
12 Total Amount of Vintage 0 Impacts to be Applied to Residential	Line 2 + Line 11a	\$	2,136,359
13 Total Amount of Vintage 0 Impacts to be Applied to Industrial	Line 4 + Line 8 + Line 11c	\$	1,127,488
14 Total Amount of Vintage 0 Impacts to be Applied to General	Line 5 + Line 9 + Line 11d	\$	977,726
15 Total Amount of Vintage 0 Impacts to be Applied to Lighting	Line 6 + Line 10 + Line 11e	\$	12,318
		\$	4,253,891

EXHIBIT 7a

kWh Sales Non-Residential Breakdown		2009 COS		kWh Sales HP Breakdown	
1 Industrial percent of kWh sales		38.997036%	57.548519%	HP	-0.4845624% (96,172,565)
2 General percent of kWh sales		27.617251%	40.755197%	OPT-G	-0.10365881% (20,573,478)
3 Lighting percent of kWh sales		1.149466%	1.696284%	G	0.03599634% 7,144,303
		67.76375%	100.00000%	OPT-I	-0.41689993% (82,743,390)

Peak Demand Non-Residential Breakdown		2009 COS		Peak Demand HP Breakdown	
4 Industrial percent of kWh sales		29.973241%	51.082006%	HP	2.9234881% 118,791
5 General percent of kWh sales		28.690944%	48.896645%	OPT-G	0.08190325% 3,328
6 Lighting percent of kWh sales		0.012527%	0.021349%	G	0.02212470% 899
		58.67671%	100.00000%	OPT-I	2.81946015% 114,564